

**ABSTRACT**

~~Method of modulation and demodulation of a digital signal, in particular in a frequency band affected by flat fading, associated modulator and demodulator~~

~~Broadcasting on the FM band presents a major drawback in respect of digital transmission by virtue of a propagation problem called spatial fading or flat fading. The invention proposes a~~

~~A method of modulating a digital signal of width L in frequency on a given useful frequency band is described characterized in that it comprises the following steps: comprising: [[ ]] a separation of the~~ The digital signal is separated into N blocks  $b_n$  ( $1 \leq n \leq N$ ) . [[,]] [[-]] ~~a splitting of the~~ The given useful frequency band is split into N contiguous parts  $P_n$  [[,]] [[ - ]] ~~a definition of channels~~ Channels  $C_n$ , of width  $l_n$  in frequency, lying within an associated part  $P_n$ , are defined. [[the]] The channels  $C_n$  ~~being~~ are separated, [[-]] a distributing of each block of digital signals  $b_n$  over the associated channel  $C_n$ .

~~[Figure 1]~~